

VT

特点 Features

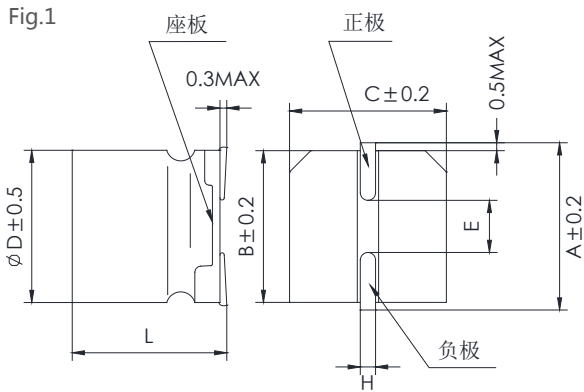
- 保证105°C 1000小时。Endurance 1000h at 105°C.
- 额定电压范围：6.3~100V。Rated Voltage Range:6.3~100V.
- 宽温度品。Wide temperature Type.
- 满足RoHS。RoHS Compliant.



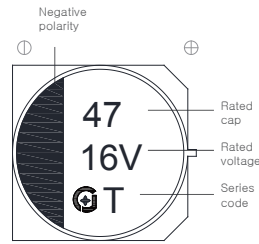
主要技术性能 Specifications

项目 Items	特性 Performance Characteristics																															
类别温度范围 Category Temperature Range	-40~+105°C																															
额定电压范围 Rated Voltage(U _R)	6.3~100V																															
标称电容量范围 Nominal Capacitance Range(C _R)	0.1~2200μF	120Hz, +20°C																														
标称电容量允许偏差 Allowed Capacitance Tolerance(C _r)	±20%(M)	120Hz, +20°C																														
漏电流 Leakage Current(I _L)	≤0.01C _R U _R 或者3μA 取较大值 (Whichever is greater)																															
损耗角正切值 Tangent of loss angle(Tanδ)	<table border="1"> <tr> <td>U_R (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>Tanδ</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	63	80	100	Tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10	0.10	Max. 120Hz, +20°C										
U _R (V)	6.3	10	16	25	35	50	63	80	100																							
Tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10	0.10																							
低温特性 Characteristics at Low Temperature	<table border="1"> <tr> <td>U_R (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>Z_{-25°C} / Z_{+20°C}</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z_{-40°C} / Z_{+20°C}</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	63	80	100	Z _{-25°C} / Z _{+20°C}	4	3	2	2	2	2	2	2	2	Z _{-40°C} / Z _{+20°C}	8	6	4	4	3	3	3	3	3	Max. 120Hz
U _R (V)	6.3	10	16	25	35	50	63	80	100																							
Z _{-25°C} / Z _{+20°C}	4	3	2	2	2	2	2	2	2																							
Z _{-40°C} / Z _{+20°C}	8	6	4	4	3	3	3	3	3																							
耐久性 Load Life	+105°C, 连续施加额定电压1000小时, 恢复16小时后: After applying rated voltage for 1000 hours at 105°C and then recovery 16 hours:																															
	电容量变化率 Capacitance change	±20%初始值以内 Within ±20% of initial value																														
	损耗角正切值 Tanδ	≤ 200%初始规定值 Not more than 200% of specified value																														
高温贮存 Shelf Life	+105°C贮存1000小时后, 恢复16小时后: After storage for 1000 hours at +105°C and then recovery 16 hours																															
	电容量变化率 Capacitance change	±20%初始值以内 Within ±20% of initial value																														
	损耗角正切值 Tanδ	≤ 200%初始规定值 Not more than 200% of specified value																														
耐焊接热 Resistance to Soldering Heat	在250°C的条件下, 电容器在热板上保持30秒, 然后从热板上取出电容器, 让其在室温下恢复, 电容器应满足以下要求: The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.																															
	电容量变化率 Capacitance change	±10%初始值以内 Within ±10% of initial value																														
	损耗角正切值 Tanδ	≤初始规定值 Not more than specified value																														
	漏电流 Leakage current	≤ 初始规定值 Not more than specified value																														

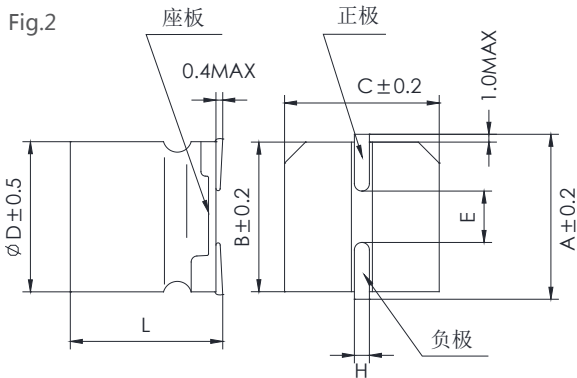
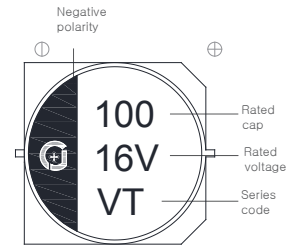
尺寸图 Dimensional drawings



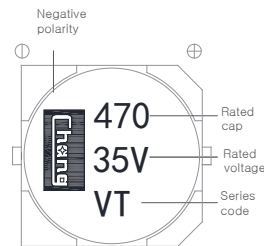
Marking
 $\phi D=4 \sim 5\text{mm}$



$\phi D=6.3 \sim 10.2\text{mm}$



$\phi D=12.5\text{mm}$



尺寸表 Size table

单位 Unit: mm

ϕD	L	A	B	C	$E \pm 0.2$	H	Fig.No.
4	$5.4^{+0.2}_{-0.1}$	5.0	4.3	4.3	1.0	0.5 ~ 0.8	1
4	5.8 ± 0.3	5.0	4.3	4.3	1.0		
5	$5.4^{+0.2}_{-0.1}$	6.0	5.3	5.3	1.3		
5	5.8 ± 0.3	6.0	5.3	5.3	1.3		
6.3	$5.4^{+0.2}_{-0.1}$	7.3	6.6	6.6	2.2		
6.3	5.8 ± 0.3	7.3	6.6	6.6	2.2		
6.3	7.7 ± 0.3	7.3	6.6	6.6	2.2	0.8 ~ 1.1	1
8	6.5 ± 0.5	8.9	8.3	8.3	2.3		
8	$10/10.5 \pm 0.5$	9.0	8.3	8.3	3.1		
10	$10/10.5 \pm 0.5$	11.0	10.3	10.3	4.5	0.8 ~ 1.1	1
10	12.5 ± 0.5	11.0	10.3	10.3	4.5		
12.5	13.5 ± 0.5	13.6	13	13	4.5	1.1 ~ 1.4	2
12.5	16 ± 0.5	13.6	13	13	4.5		

规格特性表
Table of specifications and characteristics

C _R (μF) \ U _R (V)	6.3V		10V		16V		25V		35V	
	ΦDxL mm*mm	I _{ACR} 120Hz 105°C mA	ΦDxL mm*mm	I _{ACR} 120Hz 105°C mA	ΦDxL mm*mm	I _{ACR} 120Hz 105°C mA	ΦDxL mm*mm	I _{ACR} 120Hz 105°C mA	ΦDxL mm*mm	I _{ACR} 120Hz 105°C mA
4.7									4*5.4	22
10					4*5.4	28	4*5.4	27	5*5.4	30
22	4*5.4	29	4*5.4	21	5*5.4	39	5*5.4	44	5*5.8	35
33	4*5.4	26	5*5.4	34	5*5.4	35			6.3*5.4	62
47	5*5.4	46	5*5.4	36	6.3*5.4	65	6.3*5.4	70	6.3*5.8	72
100	6.3*5.4	71	6.3*5.4	48	6.3*5.4	70	6.3*7.7	100	6.3*7.7	85
220	6.3*5.8	86	6.3*5.8	80	6.3*7.7	120	8*10.5	320	8*10.5	290
330	6.3*7.7	123	6.3*7.7	110	8*10.5	325			10*10.5	450
470	8*10.5	330	8*10.5	380	8*10.5	340	10*10.5	490	12.5*13.5	550
680			10*10.5	390	10*10.5	410	10*12.5	520		
1000	10*10.5	470	10*10.5	450			12.5*13.5	650		
1500			10*12.5	480						
2200	10*12.5	520	12.5*13.5	820	12.5*13.5	600				

C _R (μF) \ U _R (V)	50V		63V		80V		100V	
	ΦDxL mm*mm	I _{ACR} 120Hz 105°C mA	ΦDxL mm*mm	I _{ACR} 120Hz 105°C mA	ΦDxL mm*mm	I _{ACR} 120Hz 105°C mA	ΦDxL mm*mm	I _{ACR} 120Hz 105°C mA
0.1	4*5.4	2.3						
0.22	4*5.4	3.4						
0.33	4*5.4	4.1						
0.47	4*5.4	5.0						
1	4*5.4	10						
2.2	4*5.4	16						
3.3	4*5.4	16						
4.7	5*5.4	23	5*5.4	17				
10	6.3*5.4	32	6.3*5.4	22	6.3*7.7	38	6.3*7.7	32
22	6.3*5.4	36	6.3*7.7	58	8*10.5	60	8*10.5	100
33	6.3*7.7	70						
47	8*10.5	210	8*10.5	170	10*10.5	120	10*10.5	155
100	8*10.5	230	10*10.5	310	12.5*13.5	230	12.5*13.5	230
220	10*10.5	375	12.5*13.5	440				
330	12.5*13.5	650						

额定纹波电流频率修正系数
Frequency correction factor for ripple current

Frequency (Hz)	50	120	300	1K	≥10K
Coefficient (kf)	0.70	1.00	1.17	1.36	1.50